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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/788,540	02/21/2001	Shigeru Fujita	1484.1004	5606
21171 7590 11/26/2007 STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			EXAMINER LEE, PHILIP C	
			ART UNIT 2152	PAPER NUMBER
			MAIL DATE 11/26/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

09/788,540

Applicant(s)

FUJITA, SHIGERU

Examiner

Philip C. Lee

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 18 September 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1 and 3-9 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 3-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

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1. This action is responsive to the amendment and remarks filed on September 18, 2007.
2. Claims 1 and 3-9 are presented for examination and claim 2 is canceled.
3. The text of those sections of Title 35, U.S. code not included in this office action can be found in a prior office action.

*Objection*

4. Claim 1 is objected to because of the following informalities: claims 1 (lines 8, 14-15, 16-17, 21, 25, 28), "the client" should have been "the computer client"; Lines 4, 7, 9, 10, 11, 13, 14, 19, 20, 22, 23, "the server" should have been "the computer server"; Claims 3, 4, 5 and 9 are objected for the same reasons as claim 1 above.

*Claim Rejections - 35 USC 103*

5. Claims 1 and 3-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grun, U.S. Patent Application Publication 2004/0107304 (hereinafter Grun) in view of Brockway et al, U.S. Patent Application Publication 2005/0060367 (hereinafter Brockway) and further in view of "Official Notice".
6. Grun was cited in the previous office action.

7. As per claim 1, Grun teaches a system comprising: a computer server ((0055)),  
comprising:

a server application (inherent comprised in the host computer of fig. 1, (0004)) (e.g.,  
kernel or OS);

client-side software at the server (applications served as initiators in communication with  
host) in communication with the server application ((0043)) and generating operating  
instructions for an I/O device connected to a computer client ((0042), (0044));

a client-side device driver (20, fig. 2) at the server controlling input-output control to a  
client-side I/O port controlling the I/O device connected to the client, based on the operating  
instructions from the client-side software at the server((0043), (0044)); and

a virtual I/O port at the server interfacing with the client-side device driver at the server  
with an interface having same function as the client-side I/O port by transmitting an input-output  
control received from the client-side device driver at the server and informing the client-side  
device driver at the server of an event received from the I/O device connected to the client (fig.  
2; (0042), (0043), (0050)) (channel adapter provides interface for data and message transfer  
between I/O drivers and I/O controller (inherently comprised I/O ports), which controls I/O  
devices at the I/O unit (i.e. I/O port at the client); and

a computer client connected to the I/O device (fig. 2, 3 and 5; (0057)), the client  
comprising:

a client-side device handler (22,26, fig. 2)in direct local area network communication  
((0044)) with the virtual I/O port in the server (fig. 2) and receiving the input-output control from  
the virtual I/O port in the server and redirecting the event from the I/O device connected to the

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client to the virtual I/O port in the server by transmitting the event to the virtual I/O port in the server ((0050),(0042), (0043)),

wherein the client-side I/O port controls the I/O device connected to the client according to the input-output control from the client-side device handler ((0042),(0043)) (it is inherent that I/O controller at I/O unit that controls the I/O device according to data and messages received by target channel adapter (device handler) to the I/O controller (fig. 2)).

8. Grun does not teach server application transmits an application processing result to the computer client. Brockway teaches wherein the server application (e.g., 66 of printing subsystem 64) transmits an application processing result (e.g., server configuration information, which is a result of the printing subsystem installation process) to the computer client ((0039)) based upon the event received from the I/O device connected to the client ((0038)) via the direct local area network communication ((0024)).

9. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Grun and Brockway because Brockway's teaching of server application transmits application processing result would enhance the processing of client and server in Grun's system by allowing client process to be offloaded to server-sided process.

10. Grun and Brockway do not specifically teach TCP/UDP socket communication. Official Notice is taken for both the concept and advantages of socket communication such as TCP/UDP is known and accepted in the art. It would have been obvious to one of ordinary skill in the art at